ORIGINAL

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JOHN P. McALLISTER++
DAVID J. LAVAN+++
AIMEE E. KNAPP
MICHAEL W. RICHARDS
PETER B. SANCHEZ+++
JOHN R. WYMA++
KRISTA K. STARK++

* VA BAR ONLY
** MA BAR ONLY
*** MI AND IL BAR ONLY
\+ IL BAR ONLY
++ LEGISLATIVE NON-LAWYER
+++ NY BAR ONLY

August 10, 2001

via Hand Delivery

Magalie Roman Salas, Secretary
Office of The Secretary
Office of Managing Director
Federal Communications Commission
445 Twelfth Street, SW, TWA325
Washington, D.C. 20554

Re: Written *Ex Parte* Presentation of Bachow/Coastel, L.L.C. and ALLTEL Communications, Inc., WT Docket No. 97-112, CC Docket No. 90-6

Dear Ms. Salas:

Bachow/Coastel, L.L.C. ("Bachow/Coastel") and ALLTEL Communications, Inc. ("ALLTEL"), pursuant to section 1.1206(b)(1) of the Commission's rules,[1] and by their attorneys, herewith file with the Commission two copies of their written *ex parte* presentation of August 10, 2001. Bachow/Coastel and ALLTEL are filing two additional copies of this written *ex parte* presentation with the Commission due to the second docket number attached to this proceeding.

If you have any questions concerning this filing, or if you require additional information, please do not hesitate to call.

Cordially,

Steven J. Hamrick

Counsel to Bachow/Coastel, L.L.C.

Attach.

[1] 47 C.F.R. § 1.1206(b)(1).

ORIGINAL

BEFORE THE

Federal Communications Commission

WASHINGTON, D.C. 20554

ORIGINAL

In the Matter of	)	
	)	
Cellular Services and Other Commercial Mobile Radio Services in the Gulf of Mexico	)	WT Docket No. 97-112
	)	
Amendment of Part 22 of the Commission's Rules to Provide for Filing and Processing of Applications for Unserved Areas in the Cellular Service and To Modify Other Cellular Rules	)	CC Docket No. 90-6

To: The Commission

JOINT REQUEST OF BACHOW/COASTEL, L.L.C. AND ALLTEL COMMUNICATIONS, INC.

Bachow/Coastel, L.L.C. ("Bachow/Coastel") and ALLTEL Communications, Inc. ("ALLTEL") (collectively, the "Parties"), pursuant to sections 1.41 and 1.1206(b)(1) of the Commission's rules[1] and by their attorneys, hereby submit this Joint Request for the Commission's consideration in the above-referenced docket. On July 13, 2001, the Parties entered a Colocation and Site Activation Agreement (the "Agreement," a redacted copy of which is attached hereto as *Exhibit A*), which has resolved a dispute of nearly three years standing involving cellular operations in the Mobile, AL Metropolitan Statistical Area ("Mobile MSA") and the adjacent portion of the Gulf of Mexico.

The Parties herein are submitting their Agreement into the record in this pending rulemaking proceeding because in their view this private settlement moots the need for any new

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[1] *See* 47 C.F.R. § 1.41 and 1.1206(b)(1). The Parties are concurrently submitting two copies of this Joint Request to the Commission's secretary under separate cover for inclusion in the public record. This Joint Request relates to more than one docket number; thus, the Parties are filing an additional two copies for the second docket number.

Commission rules governing coastal cellular operations with respect to those portions of the Gulf of Mexico other than the Florida coast.[2] The Agreement demonstrates that, with respect to those portions of the Gulf other than Florida, land-based and Gulf-based carriers can achieve resolutions and provide seamless cellular coverage under the Commission's current regulatory regime.

The Parties were willing to negotiate, and the result was an agreement that serves the interests of both Parties and their customers under the current rules governing cellular service in the Mobile MSA and the adjacent Gulf of Mexico. Considering this cooperation among Commission licensees, the Parties believe that the current rules adequately address cellular operations in the Mobile MSA and the adjacent portion of the Gulf of Mexico. Thus, the Parties request that the Commission conclude the above-captioned proceeding without adopting any rule changes for coastal cellular operations in the portions of the Gulf of Mexico subject to the Agreement.

Alternatively, the Parties request the Commission to grandfather this Agreement against any rules that the Commission may adopt in this proceeding. The Commission has established guidelines for grandfathering agreements against new rules.[3] When it adopted new benchmark requirements for international settlements, the Commission agreed to consider prior-negotiated agreements that did not comply strictly with the Commission's new rules.[4] The Commission

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[2] The Parties are not in agreement as to the necessity for new Commission rules affecting coastal cellular operations along the west coast of Florida.

[3] *See International Settlement Rates*, Report and Order, 12 FCC Rcd 19806, ¶ 190 (1997).

[4] *Id.*

stated that it would grandfather those agreements that are in the public interest, and established its "public interest" criteria for such agreements as, *inter alia*, those that serve the goals set forth in its Order adopting the new rules.[5]

The Agreement serves the public interest, as it meets all of the Commission's stated goals in this proceeding. In its *Second Further Notice of Proposed Rulemaking* in this proceeding, the Commission stated that its

> principal goals in this proceeding are (1) to establish a comprehensive regulatory scheme that will reduce conflict between water-based and land-based carriers, (2) to provide regulatory flexibility to Gulf carriers because of the transitory nature of water-based sites, and (3) to award licenses to serve well-travelled coastal areas to those carriers that value the spectrum most highly and will maximize its use to provide the best quality of service to the public.[6]

As discussed *infra*, the Agreements serves all of the Commission's principal goals in this proceeding.

Reduction of Conflict

The Agreement resolved the formal complaint proceeding of *Bachow/Coastel, L.L.C. v. GTE Wireless of the South, Inc.*, FCC File No. WB-ENF-F-98-005. The Agreement also eliminated a contested application proceeding by mooting Bachow/Coastel's Phase II application (FCC File No. 0000113774) and ALLTEL's petition to deny that application. Furthermore, the Agreement establishes the framework for future agreements between the Parties to prevent other

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[5] *Id.*

[6] *Cellular Service and Other Commercial Mobile Radio Services in the Gulf of Mexico, Amendment of Part 22 of the Commission's Rules to Provide for Filing and Processing of Applications for Unserved Areas in the Cellular Service and to Modify Other Cellular Rules*, Second Further Notice of Proposed Rulemaking, ¶ 2 (1997).

conflicts from arising. Clearly, the Agreement meets the Commission's first objective for this proceeding.

Regulatory Flexibility for Gulf Carriers

The Agreement preserves the integrity of Bachow/Coastel's Cellular Geographic Service Area ("CGSA"), and does not impose a "move it and lose it" penalty upon Bachow/Coastel whenever a transmitter site (usually a drilling rig) changes location in the Gulf waters. In other words, Bachow/Coastel's service area is not limited to the status quo, thus addressing one of the principal reasons why the United States Court of Appeals for the District of Columbia Circuit ("D.C. Circuit") vacated previous Commission rules having that effect.[7] Furthermore, the Agreement allows Bachow/Coastel to colocate on two of ALLTEL's land-based transmitters, which also provides greater service flexibility to Bachow/Coastel by not tethering its transmitters to rigs over which it has no control. Consequently, the existing rules provide sufficient regulatory flexibility within which carriers may adopt solutions similar to those contained in the Agreement. The Agreement thus meets the Commission's second principal goal in this proceeding.

Awarding Licenses to Carriers that Value the Spectrum
Most Highly and Provide the Best Quality Service to the Public

The Parties are the two carriers that value this spectrum the most, and that provide the highest quality service to subscribers in this geographic area. Considering the long-standing record of service provided by the Parties in the Gulf region, the Parties are undoubtedly the ones that value this spectrum most highly.

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[7] *See Petroleum Communications, Inc.* v. F.C.C., 22 F.3d 1164 (D.C. Cir. 1994).

The Parties also are the two licensees that can, and do, provide the highest quality service to the public. Both of the Parties are long-time Commission licensees that have demonstrated their individual commitment to provide the highest quality service to their subscribers. This commitment to service is further demonstrated by this Agreement, which will restore service to parts of the coastal areas of the Mobile MSA and adjoining Gulf. The Agreement thus meets the Commission's third principal goal in this proceeding.

Conclusion

The Commission should maintain its current regulatory scheme for coastal cellular operations in the areas of the Gulf of Mexico subject to the Agreement, as the current regulatory environment allowed the Parties to reach the Agreement, and to improve service to cellular subscribers in those areas. Alternatively, the Commission should grandfather the Agreement against any rules that it may adopt in CC Docket 90-6 and WT Docket 97-112 because the Agreement serves the public interest and all of the Commission's principal goals in this proceeding.

Respectfully submitted,

BACHOW/COASTEL, L.L.C.

By: _____
Arthur H. Harding
Steven J. Hamrick

FLEISCHMAN AND WALSH, L.L.P.
1400 Sixteenth Street, N.W.
Sixth Floor
Washington, D.C. 20036
(202) 939-7900 (voice)
(202) 588-0095 (telecopier)

Bachow/Coastel, L.L.C.'s Attorneys

ALLTEL COMMUNICATIONS, INC.

By: _____
Glenn S. Rabin
Vice President
Federal Regulatory Affairs
ALLTEL Corporation
601 Pennsylvania Avenue, NW
Suite 720
Washington, D.C. 20004
(202) 783-3970 (voice)
(202) 783-3982 (telecopier)

Date: August 10, 2001

commitment to service is further demonstrated by this Agreement, which will restore service to parts of the coastal areas of the Mobile MSA and adjoining Gulf. The Agreement thus meets the Commission's third principal goal in this proceeding.

Conclusion

The Commission should maintain its current regulatory scheme for coastal cellular operations in the areas of the Gulf of Mexico subject to the Agreement, as the current regulatory environment allowed the Parties to reach the Agreement, and to improve service to cellular subscribers in those areas. Alternatively, the Commission should grandfather the Agreement against any rules that it may adopt in CC Docket 90-6 and WT Docket 97-112 because the Agreement serves the public interest and all of the Commission's principal goals in this proceeding.

Respectfully submitted,

BACHOW/COASTEL, L.L.C.

By: _____
Arthur H. Harding
Steven J. Hamrick

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1400 Sixteenth Street, N.W.
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Bachow/Coastel, L.L.C.'s Attorneys

ALLTEL COMMUNICATIONS, INC.

By: _____
Glenn S. Rabin
Vice President
Federal Regulatory Affairs
ALLTEL Corporation
601 Pennsylvania Avenue, NW
Suite 720
Washington, D.C. 20004
(202) 783-3970 (voice)
(202) 783-3982 (telecopier)

Date: August 8, 2001

137407

COLOCATION AND SITE ACTIVATION AGREEMENT

This Agreement, as of the last date written below, by and between Bachow/Coastel, L.L.C. ("Bachow") and ALLTEL Communications, Inc. on behalf of its subsidiaries and affiliates providing cellular services on the B Block frequencies to the land-based markets adjacent to the Gulf of Mexico Service Area ("GMSA") currently or during the term of this Agreement (collectively, "ALLTEL").

Whereas various subsidiaries and affiliates of ALLTEL provide Cellular Radio Telephone Services (as regulated by Part 20 and Part 22, Subpart H of the rules and regulations of the Federal Communications Commission ("FCC")) to land-based markets adjacent to the GMSA;

Whereas Bachow is the licensee of the Cellular Radio Telephone Service system authorized to operate on the Block B frequencies in the GMSA;

Whereas ALLTEL and Bachow have been engaged in a controversy over the manner in which their respective Cellular Radio Telephone Service Systems provide services to coastal areas along the Gulf of Mexico and in particular, along the coastline of the Mobile, Alabama market; and

Whereas ALLTEL and Bachow have reached an agreement to settle the controversy between them by balancing the signal level of their respective Cellular Radio Telephone Service Systems through the addition, collocation and modification of the sites subject to this Agreement.

Now therefore, intending to be legally bound, ALLTEL and Bachow hereby agree as follows.

1) Cell Sites. ALLTEL agrees to permit Bachow to activate the GMSA site at MO113 and to co-locate facilities at the Ft. Morgan and Orange Beach sites (hereinafter collectively with respect to the Bachow facilities at such sites, the "Bachow Sites"). Bachow agrees to permit ALLTEL to operate its system in the Mobile, Alabama MSA, including the activation of such additional sites, and or modification of existing sites as are identified in Exhibit A hereto (hereinafter collectively with respect to the ALLTEL facilities on such sites, the "ALLTEL Sites"). Bachow shall be responsible for making its own arrangements with the site owner of each Bachow Site and shall bear the expense of any such arrangements. Should any ALLTEL Site or Bachow Site (excepting M0113) become unavailable to either or both of the parties, the parties shall cooperate to find a mutually agreeable alternative site upon which both parties may co-locate their respective facilities or such other locations as to which the parties may jointly agree. ALLTEL shall provide such assistance to Bachow, as Bachow may reasonably request, in good faith with respect to

the matters governing colocation and interconnection with ALLTEL's facilities pursuant to Paragraph 4 hereunder. ALLTEL shall not, whether through an act or a failure to act, interfere, delay or otherwise compromise, Bachow's colocation and interconnection rights under this Agreement. In no event shall the operations of either parties' facilities from any alternative site relocated due to site unavailability result in a material modification of the best server profile appended hereto in Exhibit A without the written consent of both parties.

2) Bachow Co-Location. Where Bachow has provided a required consent in writing to ALLTEL for the operation of any ALLTEL cell site(s) in any ALLTEL cellular market adjacent to the Gulf of Mexico (excluding the coastline of Florida) that is similarly situated by virtue of both its geographic proximity to the Gulf of Mexico and its technical parameters to ALLTEL's existing Ft. Morgan and Orange Beach cell sites, Bachow may co-locate on any such ALLTEL cell site (excepting Gulf Shores Beach and Dauphin Island cell sites) subject to the terms of this Agreement and the continued maintenance of the signal level balance between the markets as provided for in Exhibit A.

3) Facilities; Operating Parameters; Activation. ALLTEL and Bachow agree that the operating parameters for each of the ALLTEL Sites and for each of the Bachow Sites shall initially be those contained in Exhibit A attached hereto. Modifications to the operating parameters of any site set forth in Exhibit A (with the exception of any ALLTEL Site which produces no Service Area Boundary extension into the GMSA as calculated pursuant to the FCC's "land-based" formula described in 47 C.F.R. §22.911(a)(1)) shall be permitted with the mutual consent of both parties only to better effectuate the intent of this Agreement. Bachow agrees to permit the activation of the ALLTEL Sites prior to the activation of the Bachow Sites, should any delay in the activation of the Bachow Site be beyond ALLTEL's control, provided that ALLTEL fulfills its obligation to operate in good faith pursuant to Paragraph 1 herein. Bachow shall provide written notice of ALLTEL of any alleged breach of ALLTEL's obligation to act in good faith under Paragraph 1 herein, and ALLTEL shall have five business days from the receipt of the notice to cure any breach of its obligation. Where ALLTEL's breach of its obligation to act in good faith under Paragraph 1 hereunder remains uncured within the five day period after its receipt of notice, Bachow may, in its sole discretion, terminate this Agreement upon written notice to ALLTEL. Bachow's right to terminate this Agreement as provided for in this Paragraph shall not be to the exclusion of any other legal or equitable remedies which may otherwise be available to Bachow.

4) Equipment Ownership and Maintenance. Bachow shall be solely responsible for the expenses associated with the purchase, delivery, installation and maintenance of the equipment at the Bachow Sites. ALLTEL shall be solely

responsible for the expenses associated with the purchase, delivery, installation and maintenance of the equipment at the ALLTEL Sites. The parties agree to maintain their equipment and facilities in good working order in keeping with professional industry standards and shall remedy any equipment malfunction, or other operations at variance with either this Agreement or the rules and regulations of the Federal Communications Commission as expeditiously as is reasonably possible. The Parties agree not to interfere with the operation, maintenance and storage of the other's equipment.

5) Interconnection. Bachow shall have the option to interconnect the Bachow Sites with the Public Switched Telephone Network either through ALLTEL's switch serving the Mobile, Alabama MSA or through its own facilities. Should Bachow elect to interconnect through ALLTEL's switch, the following charges shall apply:

Switching for calls originating/terminating on Bachow Sites -- [redacted]

Long distance trunking -- [redacted]

Local trunking -- [redacted]

Directory assistance calls -- [redacted]

Bachow shall notify ALLTEL in writing of its election of the method of interconnection as soon after the execution of this Agreement as is reasonably feasible. Where Bachow elects to interconnect through the ALLTEL switch, ALLTEL agrees to provide Bachow with such information in such form as Bachow may reasonably require delineating the calls, the minutes of use by category, minute and mobile number on the Bachow Sites. ALLTEL agrees to provide port availability, unique cell site identifiers, and access to and use of easements to deliver traffic to ALLTEL's switch. ALLTEL will provide Bachow with audit rights with respect to information pertaining to any interconnection or other services provided by ALLTEL under this Agreement at such times as Bachow shall reasonably request, but in no event less frequently than annually.

6) Exchange of Traffic/Rates. Traffic exchanged between ALLTEL's cellular systems and the Bachow Sites shall be at the rate of [redacted] for airtime usage and [redacted] for long distance service. ALLTEL shall compensate Bachow at the rate of [redacted] for airtime and [redacted] for long distance service for traffic exchanged between ALLTEL's cellular systems and any site authorized to Bachow in the GMSA other than the Bachow Sites. Bachow shall compensate ALLTEL at the rate of [redacted] for airtime and [redacted] for long distance for traffic exchanged between Bachow's GMSA system, including the Bachow Sites, and ALLTEL's cellular systems.

7) Withdrawal of Filings; Release. Within two business days of the execution of this Agreement by the parties, ALLTEL shall withdraw its pending requests for waiver and special temporary authority (FCC File No. 0000223356 and any successor filing) for the Mobile MSA. ALLTEL further agrees that it shall forego any further administrative or judicial appeal of the decision of the Enforcement Bureau of the Federal Communications Commission respecting Bachow's formal complaint against GTE of the South, ALLTEL's predecessor in interest in the Mobile MSA (FCC File No. WB-ENF-F-98-005). Bachow agrees to forego, and release ALLTEL from any complaint or action before the Federal Communications Commission which it might otherwise maintain respecting ALLTEL's cellular operations in the Mobile, Alabama MSA during the time period between ALLTEL's initial operations in the Mobile, Alabama MSA and the date of this Agreement. Bachow further agrees to amend, within two business days of the execution of this Agreement by the parties, all pending applications before the Federal Communications Commission which specify the MO113 site, including its Phase II application for the Mobile MSA (FCC File No. 0000113774), in order to ensure such application's compliance with the terms of this Agreement.

8) Survival and Joint Advocacy. This Agreement shall survive the outcome of the pending rulemaking before the Federal Communications Commission respecting cellular licensing in, and around, the Gulf of Mexico (CC Docket No. 90-6, WT Docket No. 97-112) (the "Rulemaking") with the exception of such matters as may affect cellular licensing along the coastline of Florida. The parties agree to cooperate and file a joint motion (and/or such other filings as the FCC may require and to which the parties may agree) seeking the consent of the Federal Communications Commission to the grandfathering of this Agreement in order to give effect to the parties intent that the Agreement survive any newly adopted requirements, rules or regulations. The parties agree that neither of them shall take any action, including legislative advocacy, which undermines or otherwise frustrates the intent and effect of this Agreement as set forth in Paragraph 9 herein, with the exception that nothing contained herein shall prevent ALLTEL from continuing to pursue its stated position in the Rulemaking solely with respect to cellular licensing policies and rules governing the provision of Cellular Radio Telephone Service in GMSA along the Florida coastline.

9) Intent of the Agreement; Future Agreements. The parties agree that the intent of this Agreement is to ensure that each party, to the greatest extent possible, captures on their Cellular Mobile Radio Telephone System, traffic from subscribers located in their respective markets. Any agreement between the parties governing the construction and activation of additional cell sites in the Mobile MSA or elsewhere along the Gulf of Mexico excepting the coastline of Florida, that are similarly situated, both by virtue of geographic proximity to the Gulf of Mexico and technical parameters, to the Bachow Sites

referenced herein, shall not differ materially from the form and substance of this Agreement.

10) Delineation of CGSA. The parties agree that without regard to the SAB contours of their respective facilities, the border between the GMSA and the Mobile, Alabama MSA shall be maintained as delineated in the best server map contained in Exhibit A hereto. ALLTEL shall not claim or otherwise license as CGSA any territory in the GMSA directly adjacent to the Mobile, Alabama MSA. Bachow shall not claim or otherwise attempt to license as CGSA any territory in the Mobile, Alabama MSA.

11) Capitalization. Capitalized terms not otherwise defined herein shall have the meaning ascribed to them in the rules and regulations of the Federal Communications Commission.

12) Term. The term of this Agreement shall be for ten years, commencing upon its execution by the parties. Either party may extend this Agreement for an additional five-year term by serving written notice on the other party no later than the 30th day prior to the expiration of the initial term.

13) Entire Agreement; Amendments. This Agreement and the exhibits attached hereto constitute the entire agreement between the parties and no prior oral or written representations respecting the subject matter hereof shall be considered binding upon the parties. This Agreement shall not be amended or modified except through a written instrument executed by both parties.

14) Time. Time is of the essence in the performance of this Agreement.

15) Notices. All notices required under this Agreement shall be delivered via facsimile, Federal Express or other nationally recognized overnight delivery services, to the parties at the address listed below.

For ALLTEL:

Mr. Paul Bowersock
ALLTEL Communications, Inc.
14055 Riveredge Drive
Suite 600
Tampa, Florida 33637
Phone: (813) 632-2221
Facsimile: (813) 632-2221

For Bachow:

Mr. Jay Seid
Managing Director

Bachow & Associates, Inc.
3 Bala Plaza East, 5th Floor
Bala Cynwyd, Pennsylvania 19004
Facsimile: (610) 660-4930

16) Governing Law. This Agreement shall be construed in accordance with and subject to the laws and decisions of the State of Delaware without regard to any applicable rules respecting the conflict of laws.

17) Counterparts. The Agreement may be executed in several counterparts, each of which shall constitute an original, and all such counterparts shall together constitute one and the same instrument.

18) Waivers. No provision of this Agreement shall be deemed waived by course of conduct, unless such waiver is in writing signed by the parties and stating specifically that a modification of this Agreement was intended.

19) Successors and Assigns. This Agreement shall be binding upon and inure to the benefit of the parties hereto and the respective successors and assigns of their respective Cellular Radio Telephone System licenses.

In witness whereof, this Agreement has been duly executed by the duly authorized representatives of the parties as of the date last written below.

Bachow/Coastel, L.L.C.

By: Bachow Investment Partners III, L.P., the Managing Member
By: Bala Equity, L.P., its GP
By: Bala Equity, Inc., its GP
By: _____
Jay D. Seid, Vice President

Date: July 12 2001

ALLTEL Communications, Inc.

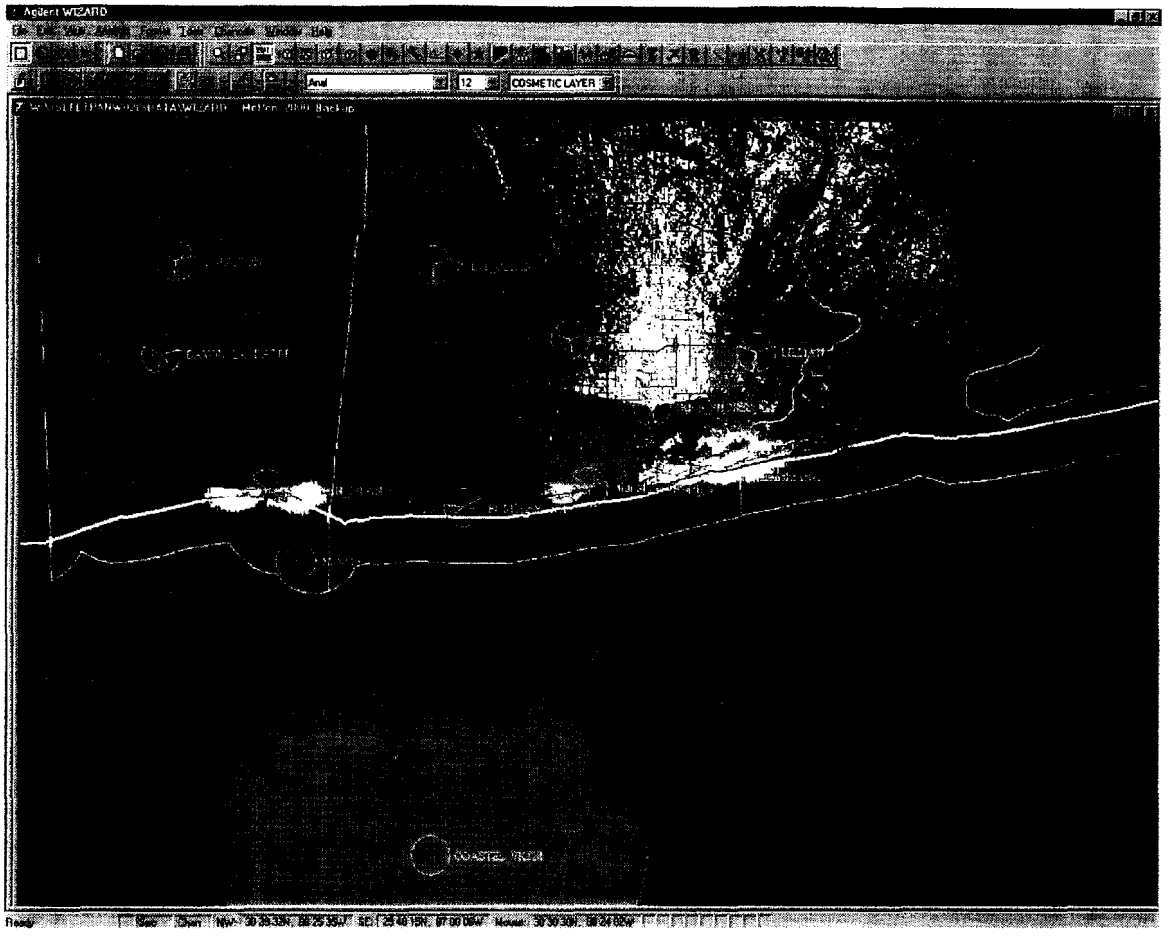
By: _____

Title: President - Florida Market Area

Date: 7/20/01

135958.1

EXHIBIT A


Agilent WIZARD
COSMETIC LAYER

FCC Reliable Service Area Contour Summary

Project: MoPen_2000_Backup
System: Mobile/Pensacola
MSC: Mobile/Pensacola MSC
Switch: MoPen Analog

Cell: # 4, IRVINGTON | Existing_Analog_Current (1004), Antenna # 1
Lat: 30 30 16.00 N
Lon: 88 13 44.00 W
Address:

Antenna: V:\TECC\ANTENNA\RWA80015.APF, Azm 0, Tilt 0
Make : Antel
Model : RWA-80015
Maxgain : 15.00
MaxErp : 100.00
Beamwidth: 102

Base Elevation : 37.5 meters AMSL
Radiation Center: 86.9 meters AGL

Radiation Center: 124.4 meters AMSL

Maximum Allowable Erp: 500.00
FCC normal HAAT limits used

Area under contour: 1114.43 Square Kilometers

Radial	Ave Elev	Actual HAAT	Used HAAT	Erp In	Erp Adj	Rsac Dist
0.0	41.2	83.1	83.1	95.50	95.50	24.695
45.0	10.7	113.6	113.6	56.23	56.23	25.098
90.0	5.5	118.9	118.9	9.77	9.77	18.928
135.0	5.6	118.7	118.7	1.15	1.15	13.147
180.0	9.5	114.9	114.9	0.25	0.25	10.002
225.0	21.2	103.1	103.1	1.02	1.02	12.290
270.0	30.5	93.9	93.9	10.72	10.72	17.743
315.0	37.3	87.1	87.1	57.54	57.54	23.018
Average:	20.2	104.2				18.115

FCC Reliable Service Area Contour Summary

Project: MoPen_2000_Backup
System: Mobile/Pensacola
MSC: Mobile/Pensacola MSC
Switch: MoPen Analog

Cell: # 4, IRVINGTON | Existing_Analog_Current (1004), Antenna # 2
Lat: 30 30 16.00 N

Lon: 88 13 44.00 W
Address:

Antenna: V:\TECC\ANTENNA\RWA80015.APF, Azm 120, Tilt 0
Make : Antel
Model : RWA-80015
Maxgain : 15.00
MaxErp : 100.00
Beamwidth: 102

Base Elevation : 37.5 meters AMSL
Radiation Center: 86.9 meters AGL

Radiation Center: 124.4 meters AMSL

Maximum Allowable Erp: 500.00
FCC normal HAAT limits used

Area under contour: 1190.65 Square Kilometers

Radial	Ave Elev	Actual HAAT	Used HAAT	Erp In	Erp Adj	Rsac Dist
0.0	41.2	83.1	83.1	2.14	2.14	12.945
45.0	10.7	113.6	113.6	20.42	20.42	21.127
90.0	5.5	118.9	118.9	75.86	75.86	26.816
135.0	5.6	118.7	118.7	93.33	93.33	27.768
180.0	9.5	114.9	114.9	37.15	37.15	23.479
225.0	21.2	103.1	103.1	3.98	3.98	15.482
270.0	30.5	93.9	93.9	0.40	0.40	10.138
315.0	37.3	87.1	87.1	0.11	0.20	8.791
Average:	20.2	104.2				18.318

FCC Reliable Service Area Contour Summary

Project: MoPen_2000_Backup
System: Mobile/Pensacola
MSC: Mobile/Pensacola MSC
Switch: MoPen Analog

Cell: # 4, IRVINGTON | Existing_Analog_Current (1004), Antenna # 3
Lat: 30 30 16.00 N
Lon: 88 13 44.00 W
Address:

Antenna: V:\TECC\ANTENNA\RWA80015.APF, Azm 240, Tilt 0
Make : Antel

Model : RWA-80015
Maxgain : 15.00
MaxErp : 100.00
Beamwidth: 102

Base Elevation : 37.5 meters AMSL
Radiation Center: 86.9 meters AGL

Radiation Center: 124.4 meters AMSL

Maximum Allowable Erp: 500.00
FCC normal HAAT limits used

Area under contour: 1124.50 Square Kilometers

Radial	Ave Elev	Actual HAAT	Used HAAT	Erp In	Erp Adj	Rsac Dist
0.0	41.2	83.1	83.1	2.29	2.29	13.098
45.0	10.7	113.6	113.6	0.12	0.20	9.623
90.0	5.5	118.9	118.9	0.46	0.46	11.246
135.0	5.6	118.7	118.7	4.47	4.47	16.563
180.0	9.5	114.9	114.9	38.90	38.90	23.663
225.0	21.2	103.1	103.1	91.20	91.20	26.366
270.0	30.5	93.9	93.9	75.86	75.86	24.748
315.0	37.3	87.1	87.1	19.05	19.05	19.076
Average:	20.2	104.2				18.048

FCC Reliable Service Area Contour Summary

Project: MoPen_2000_Backup
System: Mobile/Pensacola
MSC: Mobile/Pensacola MSC
Switch: MoPen Analog

Cell: # 6, GULF_SHORES | Existing_Analog_Current (1006), Antenna # 1
Lat: 30 20 51.00 N
Lon: 87 37 43.00 W
Address:

Antenna: V:\TECC\ANTENNA\ALP9214N.APF, Azm 0, Tilt 0
Make : Swedcom Corporation
Model : ALP9214 N
Maxgain : 13.50
MaxErp : 150.00
Beamwidth: 95

Base Elevation : 9.0 meters AMSL
Radiation Center: 91.4 meters AGL

Radiation Center: 100.4 meters AMSL

Maximum Allowable Erp: 500.00
FCC normal HAAT limits used

Area under contour: 1082.43 Square Kilometers

Radial	Ave Elev	Actual HAAT	Used HAAT	Erp In	Erp Adj	Rsac Dist
0.0	28.5	71.9	71.9	150.00	150.00	25.381
45.0	23.4	77.0	77.0	84.35	84.35	23.557
90.0	10.4	90.1	90.1	12.48	12.48	17.955
135.0	2.0	98.5	98.5	1.01	1.01	12.079
180.0	2.9	97.5	97.5	0.12	0.30	9.787
225.0	3.5	96.9	96.9	1.11	1.11	12.204
270.0	11.5	88.9	88.9	13.37	13.37	18.087
315.0	26.2	74.3	74.3	86.32	86.32	23.360
Average:	13.5	86.9				17.801

FCC Reliable Service Area Contour Summary

Project: MoPen_2000_Backup
System: Mobile/Pensacola
MSC: Mobile/Pensacola MSC
Switch: MoPen Analog

Cell: # 6, GULF_SHORES | Existing_Analog_Current (1006), Antenna # 2
Lat: 30 20 51.00 N
Lon: 87 37 43.00 W
Address:

Antenna: V:\TECC\ANTENNA\ALP9214N.APF, Azm 120, Tilt 3
Make : Swedcom Corporation
Model : ALP9214 N
Maxgain : 13.50
MaxErp : 40.00
Beamwidth: 95

Base Elevation : 9.0 meters AMSL
Radiation Center: 91.4 meters AGL

Radiation Center: 100.4 meters AMSL

Maximum Allowable Erp: 500.00
FCC normal HAAT limits used

Area under contour: 730.52 Square Kilometers

Radial	Ave Elev	Actual HAAT	Used HAAT	Erp In	Erp Adj	Rsac Dist

0.0	28.5	71.9	71.9	0.82	0.82	10.476
45.0	23.4	77.0	77.0	10.22	10.22	16.456
90.0	10.4	90.1	90.1	23.19	23.19	19.951
135.0	2.0	98.5	98.5	26.84	26.84	21.080
180.0	2.9	97.5	97.5	17.46	17.46	19.529
225.0	3.5	96.9	96.9	1.47	1.47	12.804
270.0	11.5	88.9	88.9	0.06	0.10	7.869
315.0	26.2	74.3	74.3	0.02	0.10	7.402
Average:	13.5	86.9				14.446

FCC Reliable Service Area Contour Summary

Project: MoPen_2000_Backup
System: Mobile/Pensacola
MSC: Mobile/Pensacola MSC
Switch: MoPen Analog

Cell: # 6, GULF_SHORES | Existing_Analog_Current (1006), Antenna # 3
Lat: 30 20 51.00 N
Lon: 87 37 43.00 W
Address:

Antenna: V:\TECC\ANTENNA\ALP9214N.APF, Azm 240, Tilt 3
Make : Swedcom Corporation
Model : ALP9214 N
Maxgain : 13.50
MaxErp : 40.00
Beamwidth: 95

Base Elevation : 9.0 meters AMSL
Radiation Center: 91.4 meters AGL

Radiation Center: 100.4 meters AMSL

Maximum Allowable Erp: 500.00
FCC normal HAAT limits used

Area under contour: 727.04 Square Kilometers

Radial	Ave Elev	Actual HAAT	Used HAAT	Erp In	Erp Adj	Rsac Dist
0.0	28.5	71.9	71.9	0.77	0.77	10.354
45.0	23.4	77.0	77.0	0.01	0.10	7.494
90.0	10.4	90.1	90.1	0.08	0.10	7.904
135.0	2.0	98.5	98.5	1.54	1.54	12.974
180.0	2.9	97.5	97.5	18.28	18.28	19.683
225.0	3.5	96.9	96.9	26.84	26.84	20.967
270.0	11.5	88.9	88.9	23.19	23.19	19.863
315.0	26.2	74.3	74.3	9.76	9.76	16.127

Average:	13.5	86.9				14.421

FCC Reliable Service Area Contour Summary

Project: MoPen_2000_Backup
System: Mobile/Pensacola
MSC: Mobile/Pensacola MSC
Switch: MoPen Analog

Cell: # 28, DAUPHIN_ISLAND | Existing_Analog_Current (1028), Antenna # 1
Lat: 30 15 24.00 N
Lon: 88 6 51.00 W
Address:

Antenna: V:\TECC\ANTENNA\RWA80015.APF, Azm 0, Tilt 0
Make : Antel
Model : RWA-80015
Maxgain : 15.00
MaxErp : 200.00
Beamwidth: 102

Base Elevation : 1.8 meters AMSL
Radiation Center: 30.5 meters AGL

Radiation Center: 32.3 meters AMSL

Maximum Allowable Erp: 500.00
FCC normal HAAT limits used

Area under contour: 654.69 Square Kilometers

Radial	Ave Elev	Actual HAAT	Used HAAT	Erp In	Erp Adj	Rsac Dist
0.0	1.2	31.1	31.1	191.00	191.00	19.879
45.0	0.0	32.3	32.3	112.47	112.47	18.407
90.0	0.0	32.3	32.3	19.54	19.54	13.667
135.0	0.0	32.3	32.3	2.30	2.30	9.499
180.0	0.0	32.3	32.3	0.49	0.49	7.308
225.0	0.0	32.3	32.3	2.05	2.05	9.315
270.0	0.0	32.3	32.3	21.43	21.43	13.886
315.0	0.0	32.3	32.3	115.09	115.09	18.479
Average:	0.2	32.1				13.805

FCC Reliable Service Area Contour Summary

Project: MoPen_2000_Backup
System: Mobile/Pensacola
MSC: Mobile/Pensacola MSC
Switch: MoPen Analog

Cell: # 28, DAUPHIN_ISLAND | Existing_Analog_Current (1028), Antenna # 2
Lat: 30 15 24.00 N
Lon: 88 6 51.00 W
Address:

Antenna: V:\TECC\ANTENNA\ALP4016N.APF, Azm 100, Tilt 0
Make : Swedcom Corporation
Model : ALP4016 N
Maxgain : 15.70
MaxErp : 100.00
Beamwidth: 40

Base Elevation : 1.8 meters AMSL
Radiation Center: 30.5 meters AGL

Radiation Center: 32.3 meters AMSL

Maximum Allowable Erp: 500.00
FCC normal HAAT limits used

Area under contour: 283.43 Square Kilometers

Radial	Ave Elev	Actual HAAT	Used HAAT	Erp In	Erp Adj	Rsac Dist
0.0	1.2	31.1	31.1	0.17	0.20	6.191
45.0	0.0	32.3	32.3	1.32	1.32	8.644
90.0	0.0	32.3	32.3	81.28	81.28	17.414
135.0	0.0	32.3	32.3	10.72	10.72	12.342
180.0	0.0	32.3	32.3	0.65	0.65	7.656
225.0	0.0	32.3	32.3	0.02	0.20	6.273
270.0	0.0	32.3	32.3	0.01	0.20	6.273
315.0	0.0	32.3	32.3	0.02	0.20	6.273
Average:	0.2	32.1				8.883

FCC Reliable Service Area Contour Summary

Project: MoPen_2000_Backup
System: Mobile/Pensacola
MSC: Mobile/Pensacola MSC
Switch: MoPen Analog

Cell: # 28, DAUPHIN_ISLAND | Existing_Analog_Current (1028), Antenna # 3
Lat: 30 15 24.00 N
Lon: 88 6 51.00 W
Address:

Antenna: V:\TECC\ANTENNA\ALP4016N.APF, Azm 260, Tilt 0
Make : Swedcom Corporation
Model : ALP4016 N
Maxgain : 15.70
MaxErp : 40.00
Beamwidth: 40

Base Elevation : 1.8 meters AMSL
Radiation Center: 30.5 meters AGL

Radiation Center: 32.3 meters AMSL

Maximum Allowable Erp: 500.00
FCC normal HAAT limits used

Area under contour: 210.64 Square Kilometers

Radial	Ave Elev	Actual HAAT	Used HAAT	Erp In	Erp Adj	Rsac Dist
0.0	1.2	31.1	31.1	0.09	0.10	5.503
45.0	0.0	32.3	32.3	0.00	0.10	5.576
90.0	0.0	32.3	32.3	0.01	0.10	5.574
135.0	0.0	32.3	32.3	0.01	0.10	5.576
180.0	0.0	32.3	32.3	0.21	0.21	6.350
225.0	0.0	32.3	32.3	3.73	3.73	10.317
270.0	0.0	32.3	32.3	33.27	33.27	14.964
315.0	0.0	32.3	32.3	0.66	0.66	7.692
Average:	0.2	32.1				7.694

FCC Reliable Service Area Contour Summary

Project: MoPen_2000_Backup
System: Mobile/Pensacola
MSC: Mobile/Pensacola MSC
Switch: MoPen Analog

Cell: # 29, POINT_CLEAR | Existing_Analog_Current (1029), Antenna # 1
Lat: 30 30 1.00 N
Lon: 87 54 20.00 W
Address:

Antenna: V:\TECC\ANTENNA\RWA80015.APF, Azm 0, Tilt 0
Make : Antel
Model : RWA-80015
Maxgain : 15.00
MaxErp : 150.00
Beamwidth: 102

Base Elevation : 33.5 meters AMSL

Radiation Center: 73.2 meters AGL

Radiation Center: 106.6 meters AMSL

Maximum Allowable Erp: 500.00
FCC normal HAAT limits used

Area under contour: 1174.78 Square Kilometers

Radial	Ave Elev	Actual HAAT	Used HAAT	Erp In	Erp Adj	Rsac Dist
0.0	26.5	80.1	80.1	143.25	143.25	26.125
45.0	39.3	67.3	67.3	84.35	84.35	22.508
90.0	29.1	77.5	77.5	14.66	14.66	17.534
135.0	23.4	83.2	83.2	1.72	1.72	12.482
180.0	10.1	96.5	96.5	0.37	0.37	10.099
225.0	0.2	106.5	106.5	1.53	1.53	13.310
270.0	0.0	106.6	106.6	16.07	16.07	19.852
315.0	0.0	106.6	106.6	86.32	86.32	26.419
Average:	16.1	90.6				18.541

FCC Reliable Service Area Contour Summary

Project: MoPen_2000_Backup
System: Mobile/Pensacola
MSC: Mobile/Pensacola MSC
Switch: MoPen Analog

Cell: # 29, POINT_CLEAR | Existing_Analog_Current (1029), Antenna # 2
Lat: 30 30 1.00 N
Lon: 87 54 20.00 W
Address:

Antenna: V:\TECC\ANTENNA\RWA80015.APF, Azm 120, Tilt 0
Make : Antel
Model : RWA-80015
Maxgain : 15.00
MaxErp : 150.00
Beamwidth: 102

Base Elevation : 33.5 meters AMSL
Radiation Center: 73.2 meters AGL

Radiation Center: 106.6 meters AMSL

Maximum Allowable Erp: 500.00
FCC normal HAAT limits used

Area under contour: 1139.06 Square Kilometers

Radial	Ave Elev	Actual HAAT	Used HAAT	Erp In	Erp Adj	Rsac Dist
0.0	26.5	80.1	80.1	3.21	3.21	13.695
45.0	39.3	67.3	67.3	30.63	30.63	18.947
90.0	29.1	77.5	77.5	113.79	113.79	24.842
135.0	23.4	83.2	83.2	139.99	139.99	26.362
180.0	10.1	96.5	96.5	55.73	55.73	23.707
225.0	0.2	106.5	106.5	5.97	5.97	16.768
270.0	0.0	106.6	106.6	0.60	0.60	11.343
315.0	0.0	106.6	106.6	0.16	0.30	10.090
Average:	16.1	90.6				18.219

FCC Reliable Service Area Contour Summary

Project: MoPen_2000_Backup
System: Mobile/Pensacola
MSC: Mobile/Pensacola MSC
Switch: MoPen Analog

Cell: # 29, POINT_CLEAR | Existing_Analog_Current (1029), Antenna # 3
Lat: 30 30 1.00 N
Lon: 87 54 20.00 W
Address:

Antenna: V:\TECC\ANTENNA\RWA80017.APF, Azm 210, Tilt 0
Make : Antel
Model : RWA-80017
Maxgain : 17.00
MaxErp : 100.00
Beamwidth: 62

Base Elevation : 33.5 meters AMSL
Radiation Center: 73.2 meters AGL

Radiation Center: 106.6 meters AMSL

Maximum Allowable Erp: 500.00
FCC normal HAAT limits used

Area under contour: 884.24 Square Kilometers

Radial	Ave Elev	Actual HAAT	Used HAAT	Erp In	Erp Adj	Rsac Dist
0.0	26.5	80.1	80.1	0.35	0.35	9.419
45.0	39.3	67.3	67.3	0.05	0.20	8.055
90.0	29.1	77.5	77.5	0.72	0.72	10.516
135.0	23.4	83.2	83.2	5.37	5.37	15.144
180.0	10.1	96.5	96.5	54.95	54.95	23.650
225.0	0.2	106.5	106.5	85.11	85.11	26.342

270.0	0.0	106.6	106.6	13.49	13.49	19.270
315.0	0.0	106.6	106.6	1.41	1.41	13.130
Average:	16.1	90.6				15.691

FCC Reliable Service Area Contour Summary

Project: MoPen_2000_Backup
System: Mobile/Pensacola
MSC: Mobile/Pensacola MSC
Switch: MoPen Analog

Cell: # 31, FOLEY | Existing_Analog_Current (1031), Antenna # 1
Lat: 30 25 13.00 N
Lon: 87 43 51.00 W
Address:

Antenna: V:\TECC\ANTENNA\RWA80015.APF, Azm 0, Tilt 0
Make : Antel
Model : RWA-80015
Maxgain : 15.00
MaxErp : 100.00
Beamwidth: 102

Base Elevation : 11.6 meters AMSL
Radiation Center: 86.3 meters AGL

Radiation Center: 97.8 meters AMSL

Maximum Allowable Erp: 500.00
FCC normal HAAT limits used

Area under contour: 866.67 Square Kilometers

Radial	Ave Elev	Actual HAAT	Used HAAT	Erp In	Erp Adj	Rsac Dist
0.0	37.8	60.1	60.1	95.50	95.50	22.114
45.0	35.8	62.0	62.0	56.23	56.23	20.430
90.0	29.2	68.6	68.6	9.77	9.77	15.703
135.0	17.1	80.7	80.7	1.15	1.15	11.530
180.0	11.7	86.1	86.1	0.25	0.25	9.069
225.0	11.3	86.5	86.5	1.02	1.02	11.576
270.0	20.6	77.3	77.3	10.72	10.72	16.607
315.0	29.5	68.3	68.3	57.54	57.54	21.196
Average:	24.1	73.7				16.028

FCC Reliable Service Area Contour Summary

Project: MoPen_2000_Backup

System: Mobile/Pensacola
MSC: Mobile/Pensacola MSC
Switch: MoPen Analog

Cell: # 31, FOLEY | Existing_Analog_Current (1031), Antenna # 2
Lat: 30 25 13.00 N
Lon: 87 43 51.00 W
Address:

Antenna: V:\TECC\ANTENNA\RWA80015.APF, Azm 120, Tilt 0
Make : Antel
Model : RWA-80015
Maxgain : 15.00
MaxErp : 45.00
Beamwidth: 102

Base Elevation : 11.6 meters AMSL
Radiation Center: 86.3 meters AGL

Radiation Center: 97.8 meters AMSL

Maximum Allowable Erp: 500.00
FCC normal HAAT limits used

Area under contour: 692.23 Square Kilometers

Radial	Ave Elev	Actual HAAT	Used HAAT	Erp In	Erp Adj	Rsac Dist
0.0	37.8	60.1	60.1	0.96	0.96	10.121
45.0	35.8	62.0	62.0	9.19	9.19	15.014
90.0	29.2	68.6	68.6	34.14	34.14	19.423
135.0	17.1	80.7	80.7	42.00	42.00	21.260
180.0	11.7	86.1	86.1	16.72	16.72	18.587
225.0	11.3	86.5	86.5	1.79	1.79	12.732
270.0	20.6	77.3	77.3	0.18	0.18	8.284
315.0	29.5	68.3	68.3	0.05	0.10	7.195
Average:	24.1	73.7				14.077

FCC Reliable Service Area Contour Summary

Project: MoPen_2000_Backup
System: Mobile/Pensacola
MSC: Mobile/Pensacola MSC
Switch: MoPen Analog

Cell: # 31, FOLEY | Existing_Analog_Current (1031), Antenna # 3
Lat: 30 25 13.00 N
Lon: 87 43 51.00 W
Address:

Antenna: V:\TECC\ANTENNA\7907-8.APF, Azm 250, Tilt 0
Make : Antel International, Inc.
Model : LPD 7907/8
Maxgain : 16.00
MaxErp : 200.00
Beamwidth: 78

Base Elevation : 11.6 meters AMSL
Radiation Center: 86.3 meters AGL

Radiation Center: 97.8 meters AMSL

Maximum Allowable Erp: 500.00
FCC normal HAAT limits used

Area under contour: 930.58 Square Kilometers

Radial	Ave Elev	Actual HAAT	Used HAAT	Erp In	Erp Adj	Rsac Dist
0.0	37.8	60.1	60.1	0.86	0.86	9.934
45.0	35.8	62.0	62.0	0.28	0.40	8.813
90.0	29.2	68.6	68.6	0.00	0.40	9.121
135.0	17.1	80.7	80.7	0.43	0.43	9.741
180.0	11.7	86.1	86.1	15.87	15.87	18.423
225.0	11.3	86.5	86.5	152.38	152.38	27.099
270.0	20.6	77.3	77.3	167.43	167.43	26.500
315.0	29.5	68.3	68.3	16.24	16.24	17.095
Average:	24.1	73.7				15.841

FCC Reliable Service Area Contour Summary

Project: MoPen_2000_Backup
System: Mobile/Pensacola
MSC: Mobile/Pensacola MSC
Switch: MoPen Analog

Cell: # 35, GULF_SHORES_BEACH | Existing_Analog_Current (1035), Antenna # 1
Lat: 30 15 33.00 N
Lon: 87 42 31.00 W
Address:

Antenna: V:\TECC\ANTENNA\RWA80015.APF, Azm 0, Tilt 0
Make : Antel
Model : RWA-80015
Maxgain : 15.00
MaxErp : 100.00

Beamwidth: 102

Base Elevation : 1.2 meters AMSL
Radiation Center: 55.2 meters AGL

Radiation Center: 56.4 meters AMSL

Maximum Allowable Erp: 500.00
FCC normal HAAT limits used

Area under contour: 700.99 Square Kilometers

Radial	Ave Elev	Actual HAAT	Used HAAT	Erp In	Erp Adj	Rsac Dist
0.0	10.6	45.8	45.8	95.50	95.50	20.159
45.0	8.6	47.8	47.8	56.23	56.23	18.699
90.0	0.7	55.7	55.7	9.77	9.77	14.629
135.0	0.0	56.4	56.4	1.15	1.15	10.206
180.0	0.0	56.4	56.4	0.25	0.25	7.852
225.0	0.0	56.4	56.4	1.02	1.02	10.009
270.0	0.8	55.5	55.5	10.72	10.72	14.844
315.0	9.9	46.5	46.5	57.54	57.54	18.601
Average:	3.8	52.6				14.375

FCC Reliable Service Area Contour Summary

Project: MoPen_2000_Backup
System: Mobile/Pensacola
MSC: Mobile/Pensacola MSC
Switch: MoPen Analog

Cell: # 35, GULF_SHORES_BEACH | Existing_Analog_Current (1035), Antenna # 2
Lat: 30 15 33.00 N
Lon: 87 42 31.00 W
Address:

Antenna: V:\TECC\ANTENNA\RWA80015.APF, Azm 120, Tilt 0
Make : Antel
Model : RWA-80015
Maxgain : 15.00
MaxErp : 100.00
Beamwidth: 102

Base Elevation : 1.2 meters AMSL
Radiation Center: 55.2 meters AGL

Radiation Center: 56.4 meters AMSL

Maximum Allowable Erp: 500.00
FCC normal HAAT limits used

Area under contour: 726.81 Square Kilometers

Radial	Ave Elev	Actual HAAT	Used HAAT	Erp In	Erp Adj	Rsac Dist
0.0	10.6	45.8	45.8	2.14	2.14	10.568
45.0	8.6	47.8	47.8	20.42	20.42	15.741
90.0	0.7	55.7	55.7	75.86	75.86	20.726
135.0	0.0	56.4	56.4	93.33	93.33	21.556
180.0	0.0	56.4	56.4	37.15	37.15	18.432
225.0	0.0	56.4	56.4	3.98	3.98	12.609
270.0	0.8	55.5	55.5	0.40	0.40	8.481
315.0	9.9	46.5	46.5	0.11	0.20	7.104
Average:	3.8	52.6				14.402

FCC Reliable Service Area Contour Summary

Project: MoPen_2000_Backup
System: Mobile/Pensacola
MSC: Mobile/Pensacola MSC
Switch: MoPen Analog

Cell: # 35, GULF_SHORES_BEACH | Existing_Analog_Current (1035), Antenna # 3
Lat: 30 15 33.00 N
Lon: 87 42 31.00 W
Address:

Antenna: V:\TECC\ANTENNA\ALP4016N.APF, Azm 240, Tilt 0
Make : Swedcom Corporation
Model : ALP4016 N
Maxgain : 15.70
MaxErp : 190.00
Beamwidth: 40

Base Elevation : 1.2 meters AMSL
Radiation Center: 55.2 meters AGL

Radiation Center: 56.4 meters AMSL

Maximum Allowable Erp: 500.00
FCC normal HAAT limits used

Area under contour: 509.64 Square Kilometers

Radial	Ave Elev	Actual HAAT	Used HAAT	Erp In	Erp Adj	Rsac Dist
0.0	10.6	45.8	45.8	0.07	0.38	7.878
45.0	8.6	47.8	47.8	0.04	0.38	7.996
90.0	0.7	55.7	55.7	0.03	0.38	8.423

135.0	0.0	56.4	56.4	0.24	0.38	8.457
180.0	0.0	56.4	56.4	2.13	2.13	11.339
225.0	0.0	56.4	56.4	119.88	119.88	22.494
270.0	0.8	55.5	55.5	36.20	36.20	18.258
315.0	9.9	46.5	46.5	1.54	1.54	10.056
Average:	3.8	52.6				11.863

FCC Reliable Service Area Contour Summary

Project: MoPen_2000_Backup
System: Mobile/Pensacola
MSC: Mobile/Pensacola MSC
Switch: MoPen Analog

Cell: # 38, LILLIAN | Existing_Analog_Current (1038), Antenna # 1
Lat: 30 24 26.00 N
Lon: 87 29 49.00 W
Address:

Antenna: V:\TECC\ANTENNA\RWA80015.APF, Azm 0, Tilt 0
Make : Antel
Model : RWA-80015
Maxgain : 15.00
MaxErp : 100.00
Beamwidth: 102

Base Elevation : 25.3 meters AMSL
Radiation Center: 58.2 meters AGL

Radiation Center: 83.5 meters AMSL

Maximum Allowable Erp: 500.00
FCC normal HAAT limits used

Area under contour: 849.90 Square Kilometers

Radial	Ave Elev	Actual HAAT	Used HAAT	Erp In	Erp Adj	Rsac Dist
0.0	15.6	68.0	68.0	95.50	95.50	23.059
45.0	14.3	69.2	69.2	56.23	56.23	21.206
90.0	7.0	76.5	76.5	9.77	9.77	16.296
135.0	5.1	78.4	78.4	1.15	1.15	11.416
180.0	1.8	81.7	81.7	0.25	0.25	8.908
225.0	12.6	70.9	70.9	1.02	1.02	10.821
270.0	24.0	59.6	59.6	10.72	10.72	15.201
315.0	29.8	53.7	53.7	57.54	57.54	19.526
Average:	13.8	69.7				15.804

FCC Reliable Service Area Contour Summary

Project: MoPen_2000_Backup
System: Mobile/Pensacola
MSC: Mobile/Pensacola MSC
Switch: MoPen Analog

Cell: # 38, LILLIAN | Existing_Analog_Current (1038), Antenna # 2
Lat: 30 24 26.00 N
Lon: 87 29 49.00 W
Address:

Antenna: V:\TECC\ANTENNA\RWA80015.APF, Azm 120, Tilt 0
Make : Antel
Model : RWA-80015
Maxgain : 15.00
MaxErp : 100.00
Beamwidth: 102

Base Elevation : 25.3 meters AMSL
Radiation Center: 58.2 meters AGL

Radiation Center: 83.5 meters AMSL

Maximum Allowable Erp: 500.00
FCC normal HAAT limits used

Area under contour: 903.57 Square Kilometers

Radial	Ave Elev	Actual HAAT	Used HAAT	Erp In	Erp Adj	Rsac Dist
0.0	15.6	68.0	68.0	2.14	2.14	12.088
45.0	14.3	69.2	69.2	20.42	20.42	17.851
90.0	7.0	76.5	76.5	75.86	75.86	23.088
135.0	5.1	78.4	78.4	93.33	93.33	24.111
180.0	1.8	81.7	81.7	37.15	37.15	20.910
225.0	12.6	70.9	70.9	3.98	3.98	13.632
270.0	24.0	59.6	59.6	0.40	0.40	8.685
315.0	29.8	53.7	53.7	0.11	0.20	7.457
Average:	13.8	69.7				15.978

FCC Reliable Service Area Contour Summary

Project: MoPen_2000_Backup
System: Mobile/Pensacola
MSC: Mobile/Pensacola MSC
Switch: MoPen Analog

Cell: # 38, LILLIAN | Existing_Analog_Current (1038), Antenna # 3
Lat: 30 24 26.00 N

Lon: 87 29 49.00 W
Address:

Antenna: V:\TECC\ANTENNA\RWA80015.APF, Azm 240, Tilt 0
Make : Antel
Model : RWA-80015
Maxgain : 15.00
MaxErp : 100.00
Beamwidth: 102

Base Elevation : 25.3 meters AMSL
Radiation Center: 58.2 meters AGL

Radiation Center: 83.5 meters AMSL

Maximum Allowable Erp: 500.00
FCC normal HAAT limits used

Area under contour: 857.94 Square Kilometers

Radial	Ave Elev	Actual HAAT	Used HAAT	Erp In	Erp Adj	Rsac Dist
0.0	15.6	68.0	68.0	2.29	2.29	12.231
45.0	14.3	69.2	69.2	0.12	0.20	8.131
90.0	7.0	76.5	76.5	0.46	0.46	9.682
135.0	5.1	78.4	78.4	4.47	4.47	14.382
180.0	1.8	81.7	81.7	38.90	38.90	21.075
225.0	12.6	70.9	70.9	91.20	91.20	23.214
270.0	24.0	59.6	59.6	75.86	75.86	21.201
315.0	29.8	53.7	53.7	19.05	19.05	16.181
Average:	13.8	69.7				15.762

FCC Reliable Service Area Contour Summary

Project: MoPen_2000_Backup
System: Mobile/Pensacola
MSC: Mobile/Pensacola MSC
Switch: MoPen Analog

Cell: # 39, BAYOU_LA_BATRE | Existing_Analog_Current (1039), Antenna # 1
Lat: 30 24 15.00 N
Lon: 88 14 50.00 W
Address:

Antenna: V:\TECC\ANTENNA\RWA80015.APF, Azm 0, Tilt 0
Make : Antel

```
      Model     : RWA-80015
      Maxgain   :  15.00
      MaxErp    : 100.00
      Beamwidth: 102

Base Elevation  :      2.1 meters AMSL
Radiation Center:     58.2 meters AGL
--------------------------------
Radiation Center:     60.4 meters AMSL

Maximum Allowable Erp: 500.00
FCC normal HAAT limits used

Area under contour:     664.91 Square Kilometers
```

Radial	Ave Elev	Actual HAAT	Used HAAT	Erp In	Erp Adj	Rsac Dist
0.0	35.9	24.4	29.9	95.50	95.50	17.436
45.0	9.2	51.2	51.2	56.23	56.23	19.137
90.0	3.0	57.4	57.4	9.77	9.77	14.776
135.0	1.1	59.2	59.2	1.15	1.15	10.378
180.0	0.0	60.4	60.4	0.25	0.25	8.035
225.0	0.0	60.4	60.4	1.02	1.02	10.242
270.0	2.2	58.2	58.2	10.72	10.72	15.081
315.0	19.6	40.8	40.8	57.54	57.54	17.782
Average:	8.9	51.5				14.109

```
FCC Reliable Service Area Contour Summary

Project:  MoPen_2000_Backup
System:   Mobile/Pensacola
MSC:      Mobile/Pensacola MSC
Switch:   MoPen Analog

Cell: # 39, BAYOU_LA_BATRE | Existing_Analog_Current (1039), Antenna # 2
Lat:  30 24 15.00 N
Lon:  88 14 50.00 W
Address:




Antenna: V:\TECC\ANTENNA\RWA80017.APF, Azm 107, Tilt 0
      Make      : Antel
      Model     : RWA-80017
      Maxgain   :  17.00
      MaxErp    : 170.00
      Beamwidth:  62

Base Elevation  :      2.1 meters AMSL
Radiation Center:     58.2 meters AGL
--------------------------------
Radiation Center:     60.4 meters AMSL
```

Maximum Allowable Erp: 500.00
FCC normal HAAT limits used

Area under contour: 715.32 Square Kilometers

Radial	Ave Elev	Actual HAAT	Used HAAT	Erp In	Erp Adj	Rsac Dist
0.0	35.9	24.4	29.9	1.82	1.82	8.895
45.0	9.2	51.2	51.2	18.22	18.22	15.800
90.0	3.0	57.4	57.4	135.04	135.04	23.090
135.0	1.1	59.2	59.2	100.10	100.10	22.182
180.0	0.0	60.4	60.4	10.48	10.48	15.212
225.0	0.0	60.4	60.4	1.86	1.86	11.342
270.0	2.2	58.2	58.2	0.31	0.34	8.389
315.0	19.6	40.8	40.8	0.66	0.66	8.323
Average:	8.9	51.5				14.154

FCC Reliable Service Area Contour Summary

Project: MoPen_2000_Backup
System: Mobile/Pensacola
MSC: Mobile/Pensacola MSC
Switch: MoPen Analog

Cell: # 39, BAYOU_LA_BATRE | Existing_Analog_Current (1039), Antenna # 3
Lat: 30 24 15.00 N
Lon: 88 14 50.00 W
Address:

Antenna: V:\TECC\ANTENNA\RWA80015.APF, Azm 240, Tilt 0
Make : Antel
Model : RWA-80015
Maxgain : 15.00
MaxErp : 85.00
Beamwidth: 102

Base Elevation : 2.1 meters AMSL
Radiation Center: 58.2 meters AGL

Radiation Center: 60.4 meters AMSL

Maximum Allowable Erp: 500.00
FCC normal HAAT limits used

Area under contour: 693.08 Square Kilometers

Radial	Ave Elev	Actual HAAT	Used HAAT	Erp In	Erp Adj	Rsac Dist

0.0	35.9	24.4	29.9	1.95	1.95	8.996
45.0	9.2	51.2	51.2	0.10	0.17	7.138
90.0	3.0	57.4	57.4	0.39	0.39	8.540
135.0	1.1	59.2	59.2	3.80	3.80	12.718
180.0	0.0	60.4	60.4	33.07	33.07	18.493
225.0	0.0	60.4	60.4	77.52	77.52	21.375
270.0	2.2	58.2	58.2	64.48	64.48	20.461
315.0	19.6	40.8	40.8	16.20	16.20	14.335
Average:	8.9	51.5				14.007

FCC Reliable Service Area Contour Summary

Project: MoPen_2000_Backup
System: Mobile/Pensacola
MSC: Mobile/Pensacola MSC
Switch: MoPen_Proposed | What If | AL2

Cell: # 22, Orange Beach | What If | AL2 (1022), Antenna # 1
Lat: 30 16 21.00 N
Lon: 87 34 11.00 W
Address:

Antenna: V:\TECC\ANTENNA\DB858-SX.APF, Azm 70, Tilt 0
Make : Decibel Products
Model : DB858HVH90-SX
Maxgain : 14.50
MaxErp : 100.00
Beamwidth: 90

Base Elevation : 3.4 meters AMSL
Radiation Center: 41.1 meters AGL

Radiation Center: 44.6 meters AMSL

Maximum Allowable Erp: 500.00
FCC normal HAAT limits used

Area under contour: 532.64 Square Kilometers

Radial	Ave Elev	Actual HAAT	Used HAAT	Erp In	Erp Adj	Rsac Dist
0.0	15.3	29.2	29.9	15.14	15.14	12.748
45.0	2.1	42.4	42.4	81.28	81.28	19.116
90.0	0.0	44.6	44.6	95.50	95.50	19.977
135.0	0.0	44.6	44.6	18.62	18.62	15.129
180.0	0.0	44.6	44.6	0.58	0.58	8.378
225.0	0.0	44.6	44.6	0.01	0.20	7.000
270.0	2.6	42.0	42.0	0.03	0.20	6.858
315.0	11.5	33.1	33.1	0.65	0.65	7.719

Average: 3.9 40.6 12.116

FCC Reliable Service Area Contour Summary

Project: MoPen_2000_Backup
System: Mobile/Pensacola
MSC: Mobile/Pensacola MSC
Switch: MoPen_Proposed | What If | AL2

Cell: # 22, Orange Beach | What If | AL2 (1022), Antenna # 2
Lat: 30 16 21.00 N
Lon: 87 34 11.00 W
Address:

Antenna: V:\TECC\ANTENNA\DB858-SX.APF, Azm 270, Tilt 0
Make : Decibel Products
Model : DB858HVH90-SX
Maxgain : 14.50
MaxErp : 100.00
Beamwidth: 90

Base Elevation : 3.4 meters AMSL
Radiation Center: 41.1 meters AGL

Radiation Center: 44.6 meters AMSL

Maximum Allowable Erp: 500.00
FCC normal HAAT limits used

Area under contour: 521.28 Square Kilometers

Radial	Ave Elev	Actual HAAT	Used HAAT	Erp In	Erp Adj	Rsac Dist
0.0	15.3	29.2	29.9	2.88	2.88	9.617
45.0	2.1	42.4	42.4	0.06	0.20	6.885
90.0	0.0	44.6	44.6	0.03	0.20	7.000
135.0	0.0	44.6	44.6	0.18	0.20	7.000
180.0	0.0	44.6	44.6	4.07	4.07	11.685
225.0	0.0	44.6	44.6	50.12	50.12	17.903
270.0	2.6	42.0	42.0	97.72	97.72	19.649
315.0	11.5	33.1	33.1	54.95	54.95	16.430

Average: 3.9 40.6 12.021

FCC Reliable Service Area Contour Summary

Project: MoPen_2000_Backup
System: Mobile/Pensacola
MSC: Mobile/Pensacola MSC
Switch: MoPen_Proposed | What If | AL2

Cell: # 35, Gulf Shores Beach | What If | AL2 (1035), Antenna # 1
Lat: 30 15 33.00 N
Lon: 87 42 31.00 W
Address:

Antenna: V:\TECC\ANTENNA\RWA80015.APF, Azm 0, Tilt 0
Make : Antel
Model : RWA-80015
Maxgain : 15.00
MaxErp : 100.00
Beamwidth: 102

Base Elevation : 1.2 meters AMSL
Radiation Center: 55.2 meters AGL

Radiation Center: 56.4 meters AMSL

Maximum Allowable Erp: 500.00
FCC normal HAAT limits used

Area under contour: 700.99 Square Kilometers

Radial	Ave Elev	Actual HAAT	Used HAAT	Erp In	Erp Adj	Rsac Dist
0.0	10.6	45.8	45.8	95.50	95.50	20.159
45.0	8.6	47.8	47.8	56.23	56.23	18.699
90.0	0.7	55.7	55.7	9.77	9.77	14.629
135.0	0.0	56.4	56.4	1.15	1.15	10.206
180.0	0.0	56.4	56.4	0.25	0.25	7.852
225.0	0.0	56.4	56.4	1.02	1.02	10.009
270.0	0.8	55.5	55.5	10.72	10.72	14.844
315.0	9.9	46.5	46.5	57.54	57.54	18.601
Average:	3.8	52.6				14.375

FCC Reliable Service Area Contour Summary

Project: MoPen_2000_Backup
System: Mobile/Pensacola
MSC: Mobile/Pensacola MSC
Switch: MoPen_Proposed | What If | AL2

Cell: # 35, Gulf Shores Beach | What If | AL2 (1035), Antenna # 2
Lat: 30 15 33.00 N
Lon: 87 42 31.00 W
Address:

Antenna: V:\TECC\ANTENNA\RWA80015.APF, Azm 120, Tilt 0
Make : Antel
Model : RWA-80015
Maxgain : 15.00
MaxErp : 40.00
Beamwidth: 102

Base Elevation : 1.2 meters AMSL
Radiation Center: 55.2 meters AGL

Radiation Center: 56.4 meters AMSL

Maximum Allowable Erp: 500.00
FCC normal HAAT limits used

Area under contour: 533.52 Square Kilometers

Radial	Ave Elev	Actual HAAT	Used HAAT	Erp In	Erp Adj	Rsac Dist
0.0	10.6	45.8	45.8	0.86	0.86	9.043
45.0	8.6	47.8	47.8	8.17	8.17	13.470
90.0	0.7	55.7	55.7	30.34	30.34	17.736
135.0	0.0	56.4	56.4	37.33	37.33	18.447
180.0	0.0	56.4	56.4	14.86	14.86	15.773
225.0	0.0	56.4	56.4	1.59	1.59	10.790
270.0	0.8	55.5	55.5	0.16	0.16	7.258
315.0	9.9	46.5	46.5	0.04	0.10	6.314
Average:	3.8	52.6				12.354

FCC Reliable Service Area Contour Summary

Project: MoPen_2000_Backup
System: Mobile/Pensacola
MSC: Mobile/Pensacola MSC
Switch: MoPen_Proposed | What If | AL2

Cell: # 35, Gulf Shores Beach | What If | AL2 (1035), Antenna # 3
Lat: 30 15 33.00 N
Lon: 87 42 31.00 W
Address:

Antenna: V:\TECC\ANTENNA\ALP4016N.APF, Azm 260, Tilt 0
Make : Swedcom Corporation
Model : ALP4016 N
Maxgain : 15.70
MaxErp : 30.00
Beamwidth: 40

Base Elevation : 1.2 meters AMSL

Radiation Center: 55.2 meters AGL

Radiation Center: 56.4 meters AMSL

Maximum Allowable Erp: 500.00
FCC normal HAAT limits used

Area under contour: 276.55 Square Kilometers

Radial	Ave Elev	Actual HAAT	Used HAAT	Erp In	Erp Adj	Rsac Dist
0.0	10.6	45.8	45.8	0.07	0.10	6.279
45.0	8.6	47.8	47.8	0.00	0.10	6.373
90.0	0.7	55.7	55.7	0.01	0.10	6.713
135.0	0.0	56.4	56.4	0.01	0.10	6.740
180.0	0.0	56.4	56.4	0.16	0.16	7.309
225.0	0.0	56.4	56.4	2.80	2.80	11.876
270.0	0.8	55.5	55.5	24.95	24.95	17.138
315.0	9.9	46.5	46.5	0.50	0.50	8.295
Average:	3.8	52.6				8.841

FCC Reliable Service Area Contour Summary

Project: MoPen_2000_Backup
System: Mobile/Pensacola
MSC: Mobile/Pensacola MSC
Switch: MoPen_Proposed | What If | AL2

Cell: # 110, Ft. Morgan | What If | AL2 (1110), Antenna # 1
Lat: 30 14 16.00 N
Lon: 87 52 1.00 W
Address:

Antenna: V:\TECC\ANTENNA\RWA80015.APF, Azm 10, Tilt 0
Make : Antel
Model : RWA-80015
Maxgain : 15.00
MaxErp : 200.00
Beamwidth: 102

Base Elevation : 5.2 meters AMSL
Radiation Center: 56.4 meters AGL

Radiation Center: 61.6 meters AMSL

Maximum Allowable Erp: 500.00
FCC normal HAAT limits used

Area under contour: 1007.49 Square Kilometers

Radial	Ave Elev	Actual HAAT	Used HAAT	Erp In	Erp Adj	Rsac Dist
0.0	0.0	61.6	61.6	186.65	186.65	24.988
45.0	3.3	58.3	58.3	141.59	141.59	23.402
90.0	0.7	60.9	60.9	31.70	31.70	18.415
135.0	0.0	61.6	61.6	3.40	3.40	12.645
180.0	0.0	61.6	61.6	0.44	0.44	8.926
225.0	0.0	61.6	61.6	1.42	1.42	10.898
270.0	1.1	60.4	60.4	11.51	11.51	15.464
315.0	0.0	61.6	61.6	89.34	89.34	22.046
Average:	0.6	60.9				17.098

FCC Reliable Service Area Contour Summary

Project: MoPen_2000_Backup
System: Mobile/Pensacola
MSC: Mobile/Pensacola MSC
Switch: MoPen_Proposed | What If | AL2

Cell: # 110, Ft. Morgan | What If | AL2 (1110), Antenna # 2
Lat: 30 14 16.00 N
Lon: 87 52 1.00 W
Address:

Antenna: V:\TECC\ANTENNA\ALP4016N.APF, Azm 80, Tilt 0
Make : Swedcom Corporation
Model : ALP4016 N
Maxgain : 15.70
MaxErp : 250.00
Beamwidth: 40

Base Elevation : 5.2 meters AMSL
Radiation Center: 56.4 meters AGL

Radiation Center: 61.6 meters AMSL

Maximum Allowable Erp: 500.00
FCC normal HAAT limits used

Area under contour: 595.13 Square Kilometers

Radial	Ave Elev	Actual HAAT	Used HAAT	Erp In	Erp Adj	Rsac Dist
0.0	0.0	61.6	61.6	1.34	1.34	10.800
45.0	3.3	58.3	58.3	23.33	23.33	17.224
90.0	0.7	60.9	60.9	207.94	207.94	25.354
135.0	0.0	61.6	61.6	4.15	4.15	13.083
180.0	0.0	61.6	61.6	0.59	0.59	9.380
225.0	0.0	61.6	61.6	0.01	0.50	9.130

270.0	1.1	60.4	60.4	0.05	0.50	9.073
315.0	0.0	61.6	61.6	0.07	0.50	9.130
Average:	0.6	60.9				12.897

FCC Reliable Service Area Contour Summary

Project: MoPen_2000_Backup
System: Mobile/Pensacola
MSC: Mobile/Pensacola MSC
Switch: MoPen_Proposed | What If | AL2

Cell: # 110, Ft. Morgan | What If | AL2 (1110), Antenna # 3
Lat: 30 14 16.00 N
Lon: 87 52 1.00 W
Address:

Antenna: V:\TECC\ANTENNA\ALP4016N.APF, Azm 260, Tilt 0
Make : Swedcom Corporation
Model : ALP4016 N
Maxgain : 15.70
MaxErp : 250.00
Beamwidth: 40

Base Elevation : 5.2 meters AMSL
Radiation Center: 56.4 meters AGL

Radiation Center: 61.6 meters AMSL

Maximum Allowable Erp: 500.00
FCC normal HAAT limits used

Area under contour: 597.50 Square Kilometers

Radial	Ave Elev	Actual HAAT	Used HAAT	Erp In	Erp Adj	Rsac Dist
0.0	0.0	61.6	61.6	0.59	0.59	9.380
45.0	3.3	58.3	58.3	0.01	0.50	8.962
90.0	0.7	60.9	60.9	0.05	0.50	9.095
135.0	0.0	61.6	61.6	0.07	0.50	9.130
180.0	0.0	61.6	61.6	1.34	1.34	10.800
225.0	0.0	61.6	61.6	23.33	23.33	17.547
270.0	1.1	60.4	60.4	207.94	207.94	25.292
315.0	0.0	61.6	61.6	4.15	4.15	13.083
Average:	0.6	60.9				12.911

FCC Reliable Service Area Contour Summary

Project: MoPen_2000_Backup

System: Mobile/Pensacola Neighbor
MSC: MoPen Neighbor
Switch: Coastel

Cell: # 110, Ft. Mor_Coastel | What If | AL2 (1110), Antenna # 4
Lat: 30 14 16.00 N
Lon: 87 52 1.00 W
Address:

Antenna: V:\TECC\ANTENNA\RWA80015.APF, Azm 180, Tilt 0
Make : Antel
Model : RWA-80015
Maxgain : 15.00
MaxErp : 100.00
Beamwidth: 102

Base Elevation : 5.2 meters AMSL
Radiation Center: 76.2 meters AGL

Radiation Center: 81.4 meters AMSL

Maximum Allowable Erp: 500.00
FCC normal HAAT limits used

Area under contour: 972.87 Square Kilometers

Radial	Ave Elev	Actual HAAT	Used HAAT	Erp In	Erp Adj	Rsac Dist
0.0	0.0	81.4	81.4	0.25	0.25	8.895
45.0	3.3	78.1	78.1	1.02	1.02	11.181
90.0	0.7	80.7	80.7	10.72	10.72	16.854
135.0	0.0	81.4	81.4	57.54	57.54	22.493
180.0	0.0	81.4	81.4	95.50	95.50	24.516
225.0	0.0	81.4	81.4	56.23	56.23	22.405
270.0	1.1	80.3	80.3	9.77	9.77	16.562
315.0	0.0	81.4	81.4	1.15	1.15	11.563
Average:	0.6	80.7				16.809

FCC Reliable Service Area Contour Summary

Project: MoPen_2000_Backup
System: Mobile/Pensacola Neighbor
MSC: MoPen Neighbor
Switch: Coastel

Cell: # 522, OrangeBea_Coastel | What If | AL2 (5522), Antenna # 3
Lat: 30 16 21.00 N
Lon: 87 34 11.00 W
Address:

Antenna: V:\TECC\ANTENNA\DB858-SX.APF, Azm 180, Tilt 0
Make : Decibel Products
Model : DB858HVH90-SX
Maxgain : 14.50
MaxErp : 100.00
Beamwidth: 90

Base Elevation : 3.4 meters AMSL
Radiation Center: 41.1 meters AGL

Radiation Center: 44.6 meters AMSL

Maximum Allowable Erp: 500.00
FCC normal HAAT limits used

Area under contour: 551.60 Square Kilometers

Radial	Ave Elev	Actual HAAT	Used HAAT	Erp In	Erp Adj	Rsac Dist
0.0	15.3	29.2	29.9	0.03	0.20	6.110
45.0	2.1	42.4	42.4	0.18	0.20	6.885
90.0	0.0	44.6	44.6	4.07	4.07	11.685
135.0	0.0	44.6	44.6	50.12	50.12	17.903
180.0	0.0	44.6	44.6	97.72	97.72	20.055
225.0	0.0	44.6	44.6	54.95	54.95	18.185
270.0	2.6	42.0	42.0	2.88	2.88	10.795
315.0	11.5	33.1	33.1	0.06	0.20	6.324
Average:	3.9	40.6				12.243

FCC Reliable Service Area Contour Summary

Project: MoPen_2000_Backup
System: Mobile/Pensacola Neighbor
MSC: MoPen Neighbor
Switch: Coastel

Cell: # 28, COASTEL_VK124 | Neighboring_Coastel_Current (7028), Antenna # 0
Lat: 29 51 29.00 N
Lon: 87 54 33.00 W
Address:

Antenna: V:\TECC\ANTENNA\ASPD952.APF, Azm 0, Tilt 0
Make : Antenna Specialist
Model : ASPD952
Maxgain : 9.00
MaxErp : 142.00

Beamwidth: 360

Base Elevation : 0.0 meters AMSL
Radiation Center: 32.9 meters AGL

Radiation Center: 32.9 meters AMSL

Maximum Allowable Erp: 500.00
FCC Gulf of Mexico HAAT limits used

Area under contour: 5368.83 Square Kilometers

Radial	Ave Elev	Actual HAAT	Used HAAT	Erp In	Erp Adj	Rsac Dist
0.0	0.0	32.9	32.9	142.00	142.00	41.366
45.0	0.0	32.9	32.9	142.00	142.00	41.366
90.0	0.0	32.9	32.9	142.00	142.00	41.366
135.0	0.0	32.9	32.9	142.00	142.00	41.366
180.0	0.0	32.9	32.9	142.00	142.00	41.366
225.0	0.0	32.9	32.9	142.00	142.00	41.366
270.0	0.0	32.9	32.9	142.00	142.00	41.366
315.0	0.0	32.9	32.9	142.00	142.00	41.366
Average:	0.0	32.9				41.366

FCC Reliable Service Area Contour Summary

Project: MoPen_2000_Backup
System: Mobile/Pensacola Neighbor
MSC: MoPen Neighbor
Switch: Coastel

Cell: # 1, MO-113 | Neighboring_Coastel_Current (7001), Antenna # 1
Lat: 30 10 44.00 N
Lon: 88 4 39.00 W
Address:

Antenna: V:\TECC\ANTENNA\B810N270.APF, Azm 180, Tilt 0
Make : ANTEL
Model : BCR 80010:N270
Maxgain : 13.13
MaxErp : 100.00
Beamwidth: 270

Base Elevation : 0.0 meters AMSL
Radiation Center: 47.5 meters AGL

Radiation Center: 47.5 meters AMSL

Maximum Allowable Erp: 500.00
FCC Gulf of Mexico HAAT limits used

Area under contour: 3458.96 Square Kilometers

Radial	Ave Elev	Actual HAAT	Used HAAT	Erp In	Erp Adj	Rsac Dist
0.0	0.2	47.4	47.4	0.12	0.20	17.234
45.0	0.0	47.5	47.5	0.25	0.25	17.810
90.0	0.0	47.5	47.5	68.87	68.87	41.439
135.0	0.0	47.5	47.5	69.18	69.18	41.467
180.0	0.0	47.5	47.5	16.94	16.94	33.578
225.0	0.0	47.5	47.5	73.28	73.28	41.827
270.0	0.0	47.5	47.5	75.68	75.68	42.030
315.0	0.0	47.5	47.5	0.31	0.31	18.391
Average:	0.0	47.5				31.722

The engineering parameters utilized to produce the best server map called Coastel_BS4.doc were as follows:

Land based cell sectors with all or most of the radials over land used a path loss equation with 36 dB per decade attenuation. Sectors for the water based cells, VK124 and MO113, as well as the south facing sectors of Orange Beach and Ft. Morgan used a free space propagation formula of 20 dB per decade path loss. All sectors used the same one-mile intercept value. Not withstanding some ambiguities in the best server map, the intent of this engineering is for the Coastel sectors to serve the Gulf of Mexico water as the prominent signal from the Mobile Alabama coastline south and for the ALLTEL sectors to serve the land areas as the strongest signal from the Mobile Alabama coastline north. After implementation, both parties will drive test the areas and adjust parameters to obtain the best results possible with the limitations of existing and proposed new cells.